

## Suspected Cyanide Intoxication/Smoke Inhalation

### PPE AS INDICATED FOR RESCUE.

Remove patient from source of exposure. Patients exposed to cyanide gas/vapor or smoke, do not require decontamination and do not off-gas cyanide or CO. If cyanide solution or powder on patient, decontaminate. If cyanide ingestion, vomitus/gastric aspirate may off-gas. Have suction ready and consider at least Level C respiratory protection (with CBRN cartridge), gloves and splash protection. Ventilate transport unit well. Sequester vomitus in suction container or plastic bag.

### Assessment:

#### Smoke Inhalation:

Airway / Breathing  
Circulation - BP / perfusion  
Neurological – AVPU or GCS, Confusion / disorientation / altered LOC, pupil size/reactivity  
Soot in nose / mouth / oropharynx

#### Other suspected cyanide exposure/ingestion:

Airway / Breathing  
Circulation - BP / perfusion  
Neurological – AVPU or GCS, Confusion / disorientation / altered LOC, pupil size/reactivity  
Oropharyngeal chemical burns/irritation

#### Other assessment:

Carbon Monoxide Co-oximetry (if available)  
(Pulse oximetry SO<sub>2</sub> will not be reliable in CO or CN poisoning.)

### Treatment: Based on Clinical Severity

#### For all patients:

100% O<sub>2</sub> by mask or BVM. Assist ventilation as needed. Consider intubation in comatose or arrested patients.

Initiate IV / NS @ TKO. Collect blood sample via purple top tube (if available).

Spinal immobilization as indicated if evidence of trauma/fall.

Treat burns and other presenting symptoms as indicated

#### Mild Exposure:

(Soot in nose / mouth / oropharynx, otherwise alert and stable): no other treatment, transport to appropriate facility

#### Moderate Exposure:

(Soot in nose / mouth / oropharynx, Confusion / disorientation / altered LOC, ± Hypotension):

Monitor ECG

Administer hydroxycobalamin (Cyanokit) 5g IVpgb over 15 min., (pediatric dose 70 mg/kg up to 5 g, IVPB over 15 minutes), on scene or en route

If hypotensive, consider fluid challenge

Contact Medical Control

Transport to appropriate facility

**Severe Exposure:**

(Soot in nose / mouth / oropharynx, coma / respiratory or cardiac arrest, hypotension)

Administer hydroxycobalamin (Cyanokit) 5g IVpgb over 15 min., (pediatric dose 70 mg/kg up to 5 g, IVPB over 15 minutes), on scene or en route

If in respiratory or cardiac arrest begin CPR, administer ACLS meds through separate IV

If hypotensive, consider fluid challenge

Contact Medical Control

Transport to appropriate facility

**Transport:**

Moderate to severe burns to burn center

Priority one trauma to trauma center

CO co-intoxication is common in smoke inhalation, consider transport to hyperbaric center.

Other unstable patients to closest facility